



## Notice of Availability

### Applicant Aid for Biotechnology Computer Readable Form (CRF) Sequence Listing Submissions

The Patent and Trademark Office (PTO) has developed a computer program, called Checker, that will aid applicants in identifying and correcting errors prior to making submissions for compliance with the Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures (Sequence Rules: 37CRF 1.821 through 1.825).

Final rules were published in the *Federal Register* (55 FR18230) on May 1, 1990, and in the PTO *Official Gazette* (1114 Off.Gaz.PatOffice 29) on May 15, 1990.

Checker is a DOS-based software program that is intended to assist users in determining whether errors may be present in the sequence listings, and is not intended to guarantee that the submission is error-free.

The most current version of the software is available via computer downloading, details are below. Copies on diskette are also available. Updated software versions will not be automatically mailed out; any updates will be announced in the PTO *Official Gazette*.

The software can be accessed/requested in the following locations:

- 1) Dial-up access to the Patent and Trademark Office Bulletin Board System  
Phone Number: 703-305-8950  
Cost: Free-of-charge
- 2) Dial-up access through the Internet. FTP site: [ftp.uspto.gov](ftp://ftp.uspto.gov)  
Login as "anonymous". The software is in the directory: /pub/checker  
Cost: Free-of-charge
- 3) For diskette copies, telephone requests to 703-306-2600.  
Cost: \$25.00

*For Further Information, Contact: Arti Shah at 703-308-4212*

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821 - 1.825 for the following reason(s):

1. This application clearly fails to comply with the requirements of 37 CFR 1.821-1.825. Applicant's attention is directed to these regulations, published at 114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.

2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 CFR 1.821(c).

3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e).

4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."

5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).

6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e).

7. Other: \_\_\_\_\_

**Applicant must provide:**

An initial or substitute computer readable form (CRF) copy of the "Sequence Listing"

An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification

A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d)

For questions regarding compliance with these requirements, please contact:

For Rules Interpretation, call (703) 308-1123

For CRF submission help, call (703) 308-4212

For PatentIn software help, call (703) 557-0400

**Please return a copy of this notice with your response.**

PAGE: 1

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/657,749A**

DATE: 05/16/97  
TIME: 16:02:36

### **INPUT SET: S17725.raw**

**This Raw Listing contains the General Information Section and those Sequences containing ERRORS.**

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/657,749ADATE: 05/16/97  
TIME: 16:02:39

INPUT SET: S17725.raw

46 (A) APPLICATION NUMBER: PCT/US94/13686  
47  
48 (B) FILING DATE: 30-NOV-94  
49  
50 (vii) PRIOR APPLICATION DATA:  
51  
52 (A) APPLICATION NUMBER: 08/265,047  
53  
54 (B) FILING DATE: 23-JUN-94  
55  
56 (C) CLASSIFICATION:  
57  
58 (vii) PRIOR APPLICATION DATA:  
59  
60 (A) APPLICATION NUMBER: 08/160,602  
61  
62 (B) FILING DATE: 30-NOV-93  
63  
64 (C) CLASSIFICATION:  
65  
66 (vii) PRIOR APPLICATION DATA:  
67  
68 (A) APPLICATION NUMBER: 08/066,299  
69  
70 (B) FILING DATE: 20-MAY-93  
71  
72 (vii) PRIOR APPLICATION DATA:  
73  
74 (A) APPLICATION NUMBER: PCT/US92/09863  
75  
76 (B) FILING DATE: 13-NOV-92  
77  
78 (vii) PRIOR APPLICATION DATA:  
79  
80 (A) APPLICATION NUMBER: 07/933,411  
81  
82 (B) FILING DATE: 21-AUG-92  
83  
84 (vii) PRIOR APPLICATION DATA:  
85  
86 (A) APPLICATION NUMBER: 07/796,256  
87  
88 (B) FILING DATE: 20-NOV-91  
89  
90 (viii) ATTORNEY/AGENT INFORMATION:  
91  
92 (A) NAME: Elizabeth Lassen  
93  
94 (B) REGISTRATION NUMBER: 31,845  
95  
96 (A) NAME: Donna E. Scherer  
97  
98

INPUT SET: S17725.raw

99 (B) REGISTRATION NUMBER: 34,719  
 100  
 101 (A) NAME: Carl J. Schwedler  
 102  
 103 (B) REGISTRATION NUMBER: 36,924  
 104  
 105 (C) REFERENCE/DOCKET NUMBER: CGNE 101-2 WO  
 106  
 107 (ix) TELECOMMUNICATION INFORMATION:  
 108  
 109 (A) TELEPHONE: (916) 753-6313  
 110  
 111 (B) TELEFAX: (916) 753-1510  
 112  
 113

## ERRORED SEQUENCES FOLLOW:

2646 (2) INFORMATION FOR SEQ ID NO: 32:  
 2647  
 2648 (i) SEQUENCE CHARACTERISTICS:  
 2649  
 --> 2650 (A) LENGTH: 5 residues 6 shown  
 2651  
 2652 (B) TYPE: amino acids  
 2653  
 2654 (D) TOPOLOGY: linear  
 2655  
 2656 (ii) MOLECULE TYPE: peptide  
 2657  
 2658 (ix) FEATURE: Xaa at position 3 = Leu or Gly  
 2659  
 2660  
 2661 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32 :  
 2662  
 2663 Lys Leu Xaa Tyr His Tyr  
 2664 | -5-  
 2665  
 2666

Also, please  
 re-number all your  
 amino acid sequences.  
 Numbers under amino  
 acids are misaligned  
 (see below). Do NOT  
 use TAB codes between  
 amino acid numbers.  
 TAB codes do not  
 convert into ASCII well.  
 Use space characters, instead.

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
PATENT APPLICATION **US/08/657,749A**

DATE: 05/16/97  
TIME: 16:02:45

**INPUT SET: S17725.raw**

Line	Error	Original Text
2650	Entered (5) and Calc. Seq. Length (6) differ	(A) LENGTH: 5 residues